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**IN THE ABSTRACT**

Please replace the present abstract with the following:

**ABSTRACT OF THE DISCLOSURE**

Systems and methods are described for individually electrically addressable carbon nanofibers on insulating substrates. ~~A method includes forming an electrically conductive interconnect on at least a part of an insulating surface on a substrate; and growing at least one fiber that is coupled to the electrically conductive interconnect.~~ An apparatus includes an electrically conductive interconnect formed on at least a part of an insulating surface on a substrate; and at least one vertically aligned carbon nanofiber coupled to the electrically conductive interconnect. A kit includes a substrate having an insulating surface; an electrically conductive interconnect formed on at least a part of the insulating surface; and at least one vertically aligned carbon nanofiber coupled to the electrically conductive interconnect.